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ABSTRACT

Computer routines to summarize data and generate reports from weekly log records submitted by teachers participating in the Southwest Regional Laboratory's communications skills monitoring program are described. Written in Univac FORTRAN V, Communications Skills 1, Weekly Log Summary, Revision 1 (CS-1-WLSR1) displays information by student group, class, teacher, school, district, and overall. This document is intended to serve as the software documentation for the programs. Included are a program description, data format specifications, program constraints and limitations, and operating instructions. Program flowcharts, program listings, sample data forms, and sample reports are also provided. (DGC)

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TITLE: COMMUNICATION SKILLS 1, WEEKLY LOG SUMMARY, REVISION 1 (CS-1-WLSR1)

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ABSTRACT

This document is part of a series describing the IMS Version 2 Computer Programs for FYCSP. An overview of the FYCSP system functions is documented in TN 5-70-01 by Ralph Hanson and Jerry Bailey.

The primary modification in CS-1-WLSR1 which distinguishes it from its predecessor, CS1-WLS (TN 5-70-39), is the use of classes rather than groups as the basic elements in summarizing the Weekly Log data.

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COMMUNICATION SKILLS 1, WEEKLY LOG SUMMARY, REVISION 1 (CS-1-WLSR1)

1.0 - PROGRAM IDENTIFICATION

CS-1-WLSR1

2.0 - OBJECTIVE

CS-1-WLSR1 summarizes by unit, class, teacher, school, district and overall, the data contained in the Weekly Log file.

3.0 - PROGRAM DESCRIPTION

3.1 - Program Narrative

3.1.01 - Overview

The input file contains Weekly Log records for all ten units of FYCSP, sequenced by class identification number, date, and group number.

The program processes each Weekly Log in a loop which is incremented by week day (e.g., Monday = 1, Tuesday = 2, ... Friday = 5). Because classes may be divided into groups, instances of more than one weekly log per class per week, ar to be expected. At the end of each week, group values are averaged to obtain the summary for the class. This averaging is done immediately at the end of each week for routines described in 3.1.06 through 3.1.10 whereas for the routines described in 3.1.11 through 3.1.14 the values to be averaged are saved and averaged only after all the records for that class have been read. In both cases the weekly averages are accumulated to obtain class totals. Upon encountering a new class all summary data for the preceding class is processed and printed. Additional summaries containing average values for teacher, school, district and overall are maintained and printed.

The reader is advised to study the details of the following routines in conjunction with the program flowchart (8.0).

3.1.02 - Calendar Routine (tables for this routine are taken from the calendars for 1969 and 1970.)

Each Weekly Log Sheet contains a date to which a week number will be assigned. For example, if a sheet contains the date October 15, 1969, the program looks first in the following table at the month October, and determines that for any day in October, at least 14 weeks must have transpired since week number 1 (which we have designated to have begun July 1, 1969). Now the exact number of weeks which have transpired prior to October 15th must be determined.

The calendar day representing the Sunday of the first complete week within a given month is used as the initial value to which 15 is compared. According to the table the Sunday of the first complete week for October falls on the fifth.

Month	LNWKS (MONTHS) Least number of weeks which must have transpired if in the given month	ISUM (MONTH) Calendar day on which the Sunday falls for the first complete week of a given month
1 (July)	1	6
2 (Aug.)	5	3
3 (Sept.)	10	7
4 (Oct.)	14	5
5 (Nov.)	18	2
6 (Dec.)	23	7
7 (Jan.)	27	4
8 (Feb.)	32	8
9 (March)	36	8
10 (April)	40	5
11 (May)	44	3
12 (June)	49	7

Since the 15th is "greater" than the 5th, the least number of weeks value is incremented by one. Now we know that at least 14 + 1 = 15 weeks have transpired. Seven is then added to our first Sunday value of 5 to indicate the second October week began on the 5th + 7 = 12th. Again, the IF comparison is made, 15 is still found to be greater than 12, and again the least number of weeks is incremented (15 + 1 = 16). On the next iteration, however, the 15th is finally "captured" by the week increments of 7, i.e., the 15th is finally "less than" the 12th + 7 = 19th indicating that October 15 must fall in the week preceding the week beginning on the 19th. Hence, we assign week number 16 to the date October 15, 1969.

3.1.03 - Determine Unit No. for Initial Instruction

If on a given day the unit number is marked, that unit number is accepted and the search for a unit number is bypassed. However, if the unit number is not marked while some other initial instruction grid is marked (other than clerical time) the program accepts the most recent unit number marked for this class. In the event that no preceding unit number has been established for the class, the program uses the first following unit number marked on the current Weekly Log Record. If there is no following unit number further processing for initial instruction on this record is bypassed.

3.1.04 - Determine Unit No. for Second Instruction

Logic is identical to 3.1.03 above.

3.1.05 - Criterion Exercise Routine

If the criterion exercise is given for group 0 (meaning the entire class) the criterion-exercise-given flag is switched on for all the groups in the class. If the criterion exercise is given for a group number other than 0, i.e., any one of groups 1 through 5, the criterion-exercise-given flag is switched on for that particular group number and group 5 (group 5 identifies a Weekly Log Sheet in which grouping is indicated but no group number is marked).

3.1.06 - Initial Instruction Time by Outcome

For a given day, the total instruction time is apportioned to each outcome according to the following fraction: number of activities marked for the respective outcome over total number of activities marked for all outcomes.

Activities with no specific outcome number are assigned to outcome 5 which is presented under the heading "OTHER" in the printed summary (Appendix C).

If no activities were marked on a given day, all the time for that day is also added to outcome 5.

If "more" (indicating more than 60 minutes) is marked in the initial instruction time, then the duration of initial instruction is assumed to have been 70 minutes.

3.1.07 - Initial Instruction Days by Outcome

This is similar to 3.1.06 above though fractions of days rather than fractions of minutes, are apportioned to each outcome.

3.1.08 - Second Instruction Time by Outcome

For a given day the total time marked is apportioned according to the relative number of exercises marked for each outcome, as in 3.1.06 above. However, in this case Outcome 5 refers to the Criterion Exercise Retest. The results of this count are presented under the "OTHER" heading of the printed summary blocks.

If no exercises are marked, the second instruction time is added to the array representing the 'TOTAL' column of the printed summary.

3.1.09 - Practice Exercise Time by Outcome

This routine apportions the Practice Exercise Time to each outcome according to the following fraction: number of practice exercises marked for the outcome over the total number of exercises (practice and other) marked for all outcomes.

3.1.10 - Second Instruction Days

Although the day rather than the time in minutes is apportioned over the outcomes, the apportionment technique here is identical to that used in 3.1.08 above.

3.1.11 - Assessment Needed

Phase 1

If a mark in either the "Skill or Activity" column or the "Daily Assessment Passed" column has not been encountered before for a particular activity, and that activity requires assessment, the assessment needed indicator (ANEED array) is set to the day (JDAY) of the school year on which it was needed. (JDAY is set with logic similar to the logic used in the Calendar Routine, 3.1.02).

Phase 2

After an entire class has been read, the day of the year values stored in phase 1 are retrieved, the instances in which these fall within a particular week are counted, and that sum is accumulated by week, then averaged over the number of groups submitting data that week. Note that the week of the school year can be determined from the day number (e.g., days 1-5 (JDAYLO = 1, JDAYHI = 5) fall within week 1, days 6-10 within week 2, and so forth).

3.1.12 - Assessment Given

Phase 1

The assessment given indicator (AGIVE array) is set to the day of the school year on which assessment was given, providing that the activity 1) needs assessment, 2) has not been encountered before, 3) occurred on the same day that assessment was needed for this activity, and 4) that the corresponding "Daily Assessment Passed" column has been marked "Y" or "N."

Phase 2

Logic is identical to Phase 2 of 3.1.11 above.

3.1.13 - Review Needed

Phase 1

The review needed indicator (KRN array) is set for a given activity if that activity 1) needs assessment, 2) has not been encountered before, and 3) has "N" marked in "Daily Assessment Passed" column.

Phase 2

Logic is identical to Phase 2 of 3.1.11 above.

3.1.14 - Review Given

Phase 1

The review indicator (KRG array) is set to the day of the school year on which that review was given if the review activity was given the day after review was needed for that activity.

Phase 2

This is similar to Phase 2 of 3.1.11. However, the days bounding the school week are shifted forward one day, e.g., 2-6, 7-11 . . . rather than 1-5, 6-10. This is done in order to detect review given on the Monday following the Friday on which review was needed. The lower limit of each week 2, 7 . . . is contained in KDAYLO. The upper limit 6, 11 is contained in KDAYHI.

3.1.15 - Group Averaging

For a given class at the end of each week, values derived from routines 3.1.06 - 3.1.10 are averaged over the groups into which that class was divided. These average values are then accumulated by class (see XWEEK and AWEEK arrays).

3.1.16 - Supplementary Initial Instruction Time

If in processing a unit within second instruction, that unit's criterion exercise has not been given (on initial instruction), the second instruction time marked is added to that unit's initial instruction time. Moreover, if the above unit was not given in the initial instruction section on the day being processed, then one day is added to the initial instruction days corresponding to that unit.

3.1.17 - Output Routine

The output routine prints all unit summaries of the class most recently processed. Teacher, school, district and overall summaries are also printed.

3.2 - Variables and Internal Tables

3.2.1 - Subscripts and Arrays

Subscripts

SUBSCRIPT	MEANING
unit	Unit number (range: 1-10)
level	Level number i.e., 1 = overall 2 = district 3 = school 4 = teacher 5 = class
group	Group number + 1. (range: 1-6) The addition of 1 is made to handle group 0 (e.g., IGROUP = 1 identifies group 0) which represents the entire class when no grouping is indicated.
skill	Number of a skill or activity within the initial instruction section. (range: 1-15)
outcome	Outcome number: (range: 1-6) to which a particular skill or activity is directed. 1 = outcome 1 2 = outcome 2 3 = outcome 3 4 = outcome 4 5 = "other" for initial instruction or "criterion exercise retest" for second instruction.

SUBSCRIPT	MEANING
	6 = total of outcomes 1-5
month	School month (as defined in 3.1.02).
week	School week (as defined in 3.1.02).
line	Line number (range 1-10) of printed summary block, see Appendix C.

Arrays (Unless otherwise noted all variables are integer type)

AG (unit, level) - This array counts the number of times assessment was given for the appropriate unit and level (see Phase 2, 3.1.12).

AGIVE (group, unit, skill) - This array is used to indicate whether or not assessment was given for the appropriate group, unit, and skill (see Phase 1, 3.1.12).

AN (unit, level) - For a given class this array counts the number of times assessment was needed for the appropriate unit and level (see 3.1.11, Phase 2).

ANEED (group, unit, skill) - This array indicates whether or not assessment was needed for the appropriate group, unit, and skill (see 3.11.1, Phase 1).

AVG (unit, level) - This array counts the number of classes to be averaged at each level for the appropriate unit (See Appendix C, print line number 0).

AWEEK (group, unit, outcome, line) - For a given class this array accumulates one week's data. In turn this weekly data is accumulated in XWEEK (See 3.1.06 to 3.1.10).

IASSES (unit, skill) - For a given unit and skill a value of 1 or 0 in this array indicates whether or not that skill requires assessment (see Table 3, 3.2.2).

ICON (2, 8) - This array is used to convert alpha instruction times coded by the scanner to numeric values representing minutes (see Table 2, 3.2.2).

IRC (unit) - The Criterion Exercise activity numbers for each test unit are stored in this array (see Table 1, 3.2.2).

IHDGS (level) - This alpha array contains the labels of the levels to be inserted in the heading of each unit summary print block.

IHDGS (1) = 'OVER'

IHDGS (2) = 'DIST'

IHDGS (3) = 'SCHL'

IHDGS (4) = 'TCHR'

IHDGS (5) = 'CLSS'

INDCRI (unit, group) - This integer array indicates with a 1 or 0, whether or not the Criterion Exercise has been administered to the appropriate group, for the appropriate unit.

ISUN (week) - This array contains the calendar day on which the Sunday falls for the first complete week of a given month (see 3.1.02).

JALUNI (unit) - For a given class this array indicates the units which were reported on the Weekly Logs received.

JWKUNI (unit) - For a given class and week this array indicates the units which were reported on the Weekly Logs received.

KDSTC (level) - This array contains the class identification number (identifying District, School, Teacher, and Class) of the preceding Weekly Log record:

Level	KDSTC (level)
1	Not used
2	District

Level	KDSTC (level)
3	School number
4	Teacher number
5	Class number

KRN (group, unit, skill) - For a given group, unit and skill KRN = JDAY indicates that review was needed, while KRN = -1 indicates that it was not. KRN = 0 indicates that no data for this cell was encountered (see 3.1.13).

KRG (group, unit, skill) - For a given group, unit and skill KRG = JDAY indicates review was given, while KRG = -1 indicates that it was not. KRG = 0 indicates that no data for this cell was encountered (see 3.1.14).

LDSTC (level) - This contains the alpha labels corresponding to the appropriate level numbers (e.g., LDSTC(2) = 'DIST') to be inserted in the heading line of the print summary block.

LNWKS (month) - Least Number of Weeks. This array contains the least number of weeks that must have transpired if in a certain month, e.g., if the month October (month 4) is read, the 4th element in LNWKS indicates that at least 14 weeks must have transpired (see 3.1.02).

MALPHA (238) - This array contains all the alpha data of one Weekly Log. See Appendices A ("Weekly Log Response Sheet") and B ("Format of the Input Records").

MBUFF (44) - Buffer area used by NTRAN routine (see 4.1).

MDSTC (level) - This array contains the class identification number of the current Weekly Log. The structure of this array is identical to KDSTC.

MOUTCO (9) - This array is used to allocate an outcome number to each second instruction exercise. See Table 6 of 3.2.2. The subscript value corresponds to any one of the 9 positions of a given row in the second block of the second instruction section. See Appendix A.

NGRPS (week) - For a given class this array contains the number of groups into which the class was divided for each week data was submitted.

NOUTCO (unit, skill) - This array contains the number of the outcome toward which a given skill within a given unit is directed (e.g., from Table 4 of 3.2.2, the entry in the second row and third column indicates that the second skill within the third unit is directed toward outcome No. 2).

PACT (outcome) - On a given day this array is used to count the number of second instruction Practice Exercises administered for each outcome.

RACT (outcome) - For a given day this array is used to count the number of skills that were administered for each outcome.

RAVG1 (unit, outcome, level) - This array contains the average daily initial instruction time apportioned by outcome for each level and unit (see Appendix C, print line number 8).

RAVG2 (unit, outcome, level) - This array is similar to RAVG1 although it contains the average daily second instruction time, rather than initial instruction time (see Appendix C, print line number 9).

RAVG3 (unit, outcome, level) - This array contains the ratio of practice exercise time to second instruction time as a percentage apportioned over outcomes for each summary level and unit (see Appendix C, print line number 10).

RG (unit, level) - This array counts the number of times review was given for a given unit and level (see 3.1.14).

RN (unit, level) - This array counts the number of times review was needed for a given unit and level (see 3.1.13).

SACT (outcome) - For a given day this array is used to count the number of second instruction exercises administered for each outcome. In this application Outcome 5 refers to the Criterion Exercise Retest. Outcome 6 counts the Total No. of outcomes given for second instruction that day.

XWEEK (unit, outcome, level, line) - This array accumulates the class data for print lines 1-5 of the summary print block.

3.2.2 - Internal Tables

Table No.

1. DATA ICR/15,14,12,13,10,10,9,12,15,11/

2. DATA ICON/'A',5,10,'C',20,'D',30,'E',40,'F',50
'G',60,'H',70/

3. Units 1-10

```
                DATA IASSES/0,1,1,1,0,1,1,1,1,0,
               1             1,0,1,1,1,1,1,1,1,1,
Skills         1             0,1,0,0,1,1,1,1,1,1,
 1-15          1             1,1,1,1,1,1,1,1,0,1,
               1             0,1,1,1,1,1,1,1,1,1,
               1             0,0,0,1,1,1,1,0,1,0,
               1             1,1,1,1,1,1,1,1,1,1,
               1             1,1,1,0,0,1,1,1,0,0,
               1             0,1,1,1,1,1,0,1,1,1,
               1             1,1,1,1,0,0,0,0,1,1,
               1             0,1,1,1,0,0,0,1,1,0,
               1             1,1,0,1,0,0,0,0,0,0,
               1             0,1,0,0,0,0,0,0,1,0,
               1             1,0,0,0,0,0,0,0,1,0,
               1             0,0,0,0,0,0,0,0,0,0/
```

4. Units 1-10 (this table was labeled ITIME in the initial version CS-1-WLS)

```
                DATA NOUTCO/5,2,1,4,3,2,4,3,4,5,
               1            4,3,2,2,3,3,3,1,3,3,
Skills         1            5,3,3,3,1,1,1,2,1,1,
1-15           1            1,1,1,3,2,2,2,3,5,3,
               1            2,2,2,1,3,3,3,1,1,1,
               1            3,3,3,2,1,1,1,5,3,5,
               1            1,3,3,1,4,1,1,3,1,1,
               1            4,1,1,3,3,3,1,1,4,5,
               1            5,4,4,3,1,1,5,1,5,1,
               1            1,1,1,1,5,5,5,5,1,1,
               1            3,1,1,1,5,5,5,1,2,5,
               1            2,1,5,1,5,5,5,5,3,5,
               1            3,1,5,5,5,5,5,5,5,5,
               1            1,5,5,5,5,5,5,5,1,5,
               1            5,5,5,5,5,5,5,5,5,5/
```

6. DATA MOUTCO/1,1,2,2,3,3,4,4,5/

7. DATA LNWKS/1,5,10,14,18,23,27,32,36,40,44,49/

8. DATA ISUN/6,3,8,5,2,8,4,8,8,5,3,7/

3.2.3 - Variables

IAG - For a given class, unit and week IAG is used as a counter of the times assessment was given.

IAN - IAN is similar to IAG though it counts the number of times assessment was needed.

IBLANK - Contains (1H)

ICIEX - For a given day and unit this value references the location of the Criterion Exercise activity in the Skill or Activity columns of the Weekly Log Sheet.

ICURU - For a given class this is the most recent unit number processed in the initial instruction section.

IDAY - This variable representing the day of the week is incremented from 1-5 as the program processes from Monday thru Friday of the Weekly Log Sheet.

IEOF - This flag variable is set equal to one on encountering EØF.

IFIRST - This flag equals 1 until the class identification number has been initialized. Thus, every record starting with number 2 will be read with IFIRST = 0.

IHI - For a given day this is the upper limit of a Do-loop used to process the "Skill or Activity Column" of the Weekly Log.

Its value corresponds to the bottom of the "Skill or Activity Column" on the Weekly Log Sheet.

ILEV - This subscript is used to reference level number (e.g., ILEV = 1 implies overall, ILEV = 2 implies district, etc.)

ILØ - Lower limit corresponding to IHI (e.g., the value stored in ILØ corresponds to the top, and IHI, to the bottom, of the "Skill or Activity Column").

IØUT - Subscript identifying the selected outcome, where IØUT = 1 through 4 identifies outcomes 1 through 4 and IØUT = 5 identifies the "OTHER" column of the printed summary. In the initial instruction, the "OTHER" column contains the time and days with no skill or for skills or activities given which were not associated with outcomes 1-4. In the context of the second instruction section "OTHER" contains the time and days spent on the "Criterion Exercise Retest," and an IØUT value of 6 references the "Total" column of the printed summary.

IRECS - IRECS is a count of the number of Weekly Log records read.

IRN - IRN is similar to IAN but it counts instances in which review was needed instead of assessment for a given class, unit, and week.

IRG - IRG is similar to IAG but it counts the instances in which review was given instead of assessment for a given class, unit, and week.

ISKILL - This subscript is used to reference the "Skill or Activity" number within the "Skill or Activity Column" of the Weekly Log form.

ISWRL - This integer code number identifies the output mode (e.g., 6 = Printer
8 = Tape).

IUNI & IUNIT - These subscript values reference the instructional unit number.

IWEEK - IWEEK contains the number of the school week assigned by the Calendar Routine (3.1.02) according to the date marked on the Weekly Log record just read.

IX - This Do-loop index is used in the Calendar Routine (3.1.02) to loop through a month in increments of seven days.

JCURU - For a given class this is the most recent unit number processed in the initial instruction section.

JDAY - This identifies the day of the school year. See Calendar Routine (3.1.02).

JDAYHI - For a particular week this serves as the upper limit of the range of the day value stored in arrays KRN, ANEED, and AGIVE (see Phase 2 of sections 3.1.11, 3.1.12, 3.1.13).

JDAYLO - This lower limit is used in conjunction with JDAYHI.

JHI - Upper limit of Do-loop value used to process a day row within the second block of the second instruction section.

JLEV - This is the inversion of LEV, e.g.,

1 = Class Level

5 = Overall Level

JLEV is used to determine the order in which the print block summaries are to be produced.

JLO - Lower limit of Do-loop value used to process a day row within the second block of the second instruction section (see JHI).

JOUT - Subscript used to reference a particular outcome number.

JSKILL - Subscript used to reference "Practice Exercises," "Other," and "Criterion Exercise Retest" fields in the Second Instruction section.

JSUN - As lower limit of the Calendar Routine Do-loop, JSUN indicates the calendar day on which the Sunday falls for the first complete week of a given month.

JUNIT - Subscript used to reference the second instruction unit number.

K1 - This is used as the temporary value for a cell of array KRN.

K2 - This is used as the temporary value for a cell of array KRG.

KDAYHI - For a particular week this is the upper limit of the range of the day value stored in KRG (See Phase 2, 3.1.14).

KDAYLO - This is the lower limit used in conjunction with KDAYHI.

KGROUP - This identifies the group number of the prior Weekly Log.

KGRP - This subscript is used to reference group number.

KLINE - Refers to lines 1-5 of each printed summary block. See Appendix C.

KOUT - This subscript serves to reference the outcome number.

KPUNI - On a given day this is set to the initial instruction unit number to be processed. It is then tested in the Supplementary Initial Instruction Routine (See 3.1.16).

KSKILL - This subscript serves to reference skill or activity number.

KWEEK - This variable contains the prior school week number of the class being processed.

LEV - This index variable is used in the Do-loop which determines at which level the ID change took place.

LEV = 1 indicates the overall level

= 2 indicates the district level

= 3 indicates the school level

= 4 indicates the teacher level

= 5 indicates the class level

The final value of LEV on existing the Do-loop is used to control the print loop in the Output Routine.

LGRID - This subscript serves to reference unit number in initial instruction section.

LGRID2 - This subscript serves to reference unit number in the second instruction section.

LWEEK - This subscript serves to reference week number.

MAX - This Do-loop upper limit serves to determine which initial instruction activities have been given on a particular day.

MDAY - This subscript serves to reference the day field on Weekly Log Sheet.

MGROUP - This variable contains the group number +1 of the latest record read. The addition of 1 enables the use of MGROUP as a subscript since group number starts with 0 (0 = entire class).

MIN - This Do-loop lower limit value serves in conjunction with MAX to determine which initial instruction activities have been given on a particular day.

MLEV - Each time the output print loop is executed, MLEV is incremented. In turn the level pointer is calculated by the equation JLEV = 6 - MLEV. This steps JLEV thru the class, teacher, school, district, and overall levels.

MMAX - This Do-loop upper limit serves decode unit number (see 3.1.04).

MMIN - This is the lower limit of Do-loop used in 3.1.04 to decode unit number.

MONTH - Indicates the month (July = 01, Aug. = 02 . . . June = 12) in which the Weekly Log Sheet was dated.

MSTAT - This NTRAN (4.1) status word indicates the status of the NTRAN read/write operations according to the following codes:

0 indicates the number of words transmitted

= -1 indicates transmission not complete

= -2 indicates EOF

= -3 & -4 indicates tape error.

NBOT - This Do-loop index value is used in 3.1.03 to check for unit numbers marked on the following days.

NLEV - This serves as the lower limit of index value in the Do-loop used to zero the appropriate levels of the LDSTC array.

PAGAN - This print value contains the percentage of time during which assessment was given (see line 6 of Appendix C).

PRGRN - This print value contains the percentage of time during which review was given (see line 7 of Appendix C).

RMINS - This type read variable serves as a count of initial instruction time in minutes.

SMINS - This type read variable serves as a count of second instruction time in minutes.

4.0 - SUBROUTINES AND FUNCTIONS

4.1 - Subroutine NTRAN

NTRAN is a FORTRAN callable subroutine used on the Univac 1108. In conjunction with subroutines ENCODE and DECODE, NTRAN is called to read and write the Weekly Log File's formatted logical record because their lengths exceed the capacity of the standard FORTRAN READ and WRITE statements. For details of NTRAN, see the manual entitled "UNIVAC 1107 FORTRAN UP - 3969 Rev. 1," Section 7, pp. 9-13.

5.0 - DATA SPECIFICATIONS

5.1 - Input Formats

See Appendices A and B for the relationship between the record positions 1-238 on tape and their respective locations on the Weekly Log Sheet. Note that all of fields are of alpha type. Characters corresponding to marks on the Weekly Log Sheet are contained in tape record positions 1-238, while the remaining positions of the tape record contain the following numeric data:

Positions	Description
239 - 240	District No.
241 - 242	School No.
243 - 244	Teacher No.
245 - 246	Class No.
247 - 248	Month (July = 01 - June = 12)
249 - 250	Day
251 - 251	Group No.
252 - 264	Unused by this program

5.2 - Output Formats

An example of the output summary blocks can be found in Appendix C. Concurrent with the hardcopy output, a tape was written with the same format, though summaries above the class level were omitted.

6.0 - PROGRAM CONSTRAINTS AND LIMITATIONS

6.1 - Fortran V

6.2 - Vendor

University Computing Company

6.3 - Storage Requirements

25,000 octal words

6.4 - Hardware Configuration

Univac 1108, card reader, 2 tape drives and printer

6.5 - Program Parameters

None

6.6 - Error Messages

1. MORE THAN ONE SHEET PER WEEK FOR A GROUP AT RECORD NO. This is a warning message only. Program adds 1 to group count and averages in this additional sheet or sheets.

2. FAILED TO FIND UNIT IN 'DO 1003 LOOP' FOR RECORD NO. This is a warning message in which the program indicates that it was unable to find a unit number, even though it had encountered initial instruction data.

3. FAILED TO FIND UNIT IN'DO 4503 LOOP' FOR RECORD NO. This is a warning message in which the program indicates it was unable to find a unit number, even though it had encountered second instruction data.

7.0 - OPERATING INSTRUCTIONS

The Weekly Log Processor was executed using the following control cards.

```
@ RUN, W WOLFE, account no., 7, 400

@ MSG DELIVER TO SWRL

@ RAKEX ASG E = 1343 NORING

@ RX ASG H = S1019
```

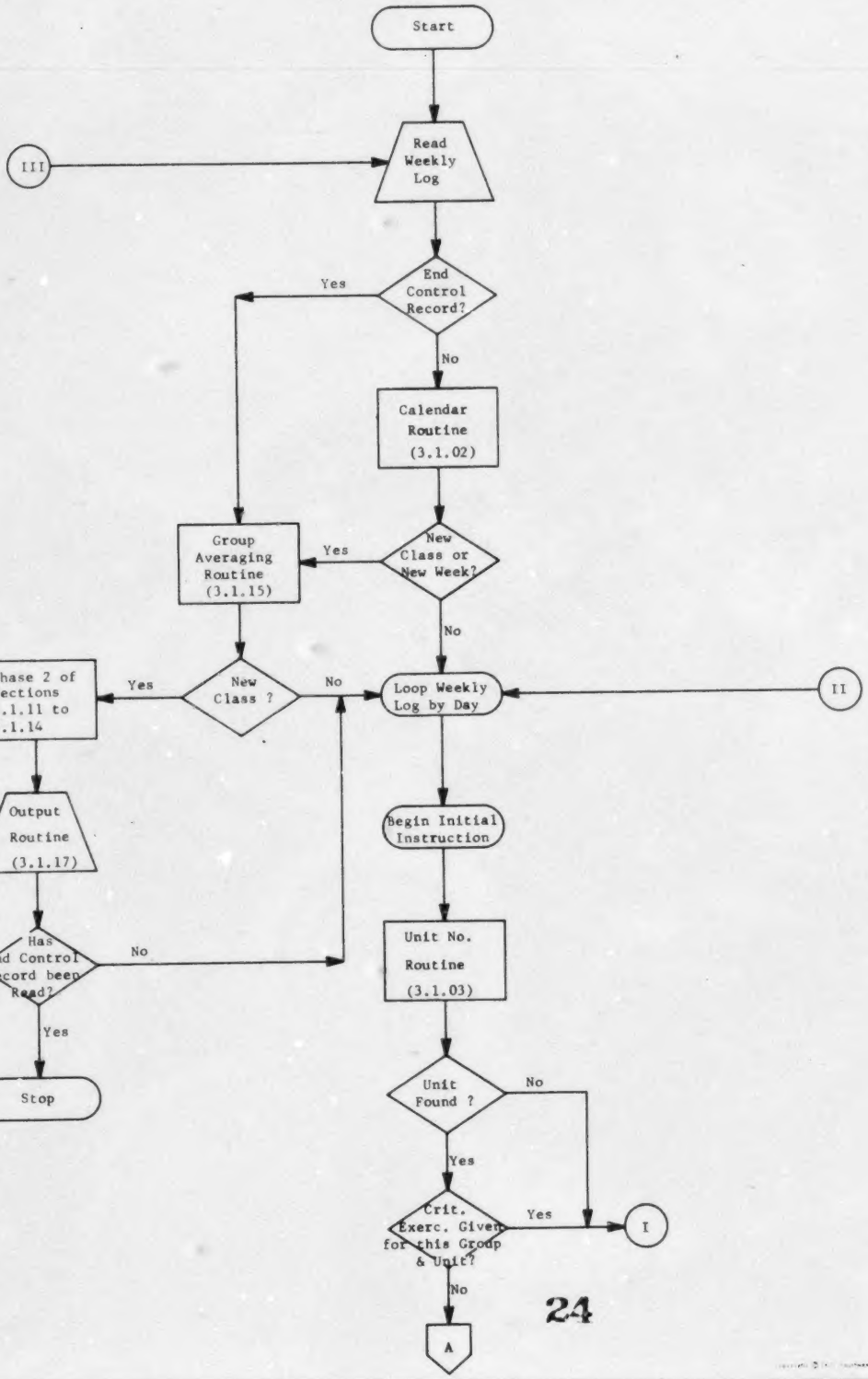
```
@ FOR WLS, WLS
  (Source Deck)

@ XQT WLS

@ XQT CUR
  TRI E, H
```

8.0 Program Flowchart

SWRI

FLOWCHART LAYOUT FORM

PROGRAMMER: Tom Foote and Howard Wolfe
PROGRAM ID: CS-1-WLSR1
DATE:
PAGE 1 OF 2



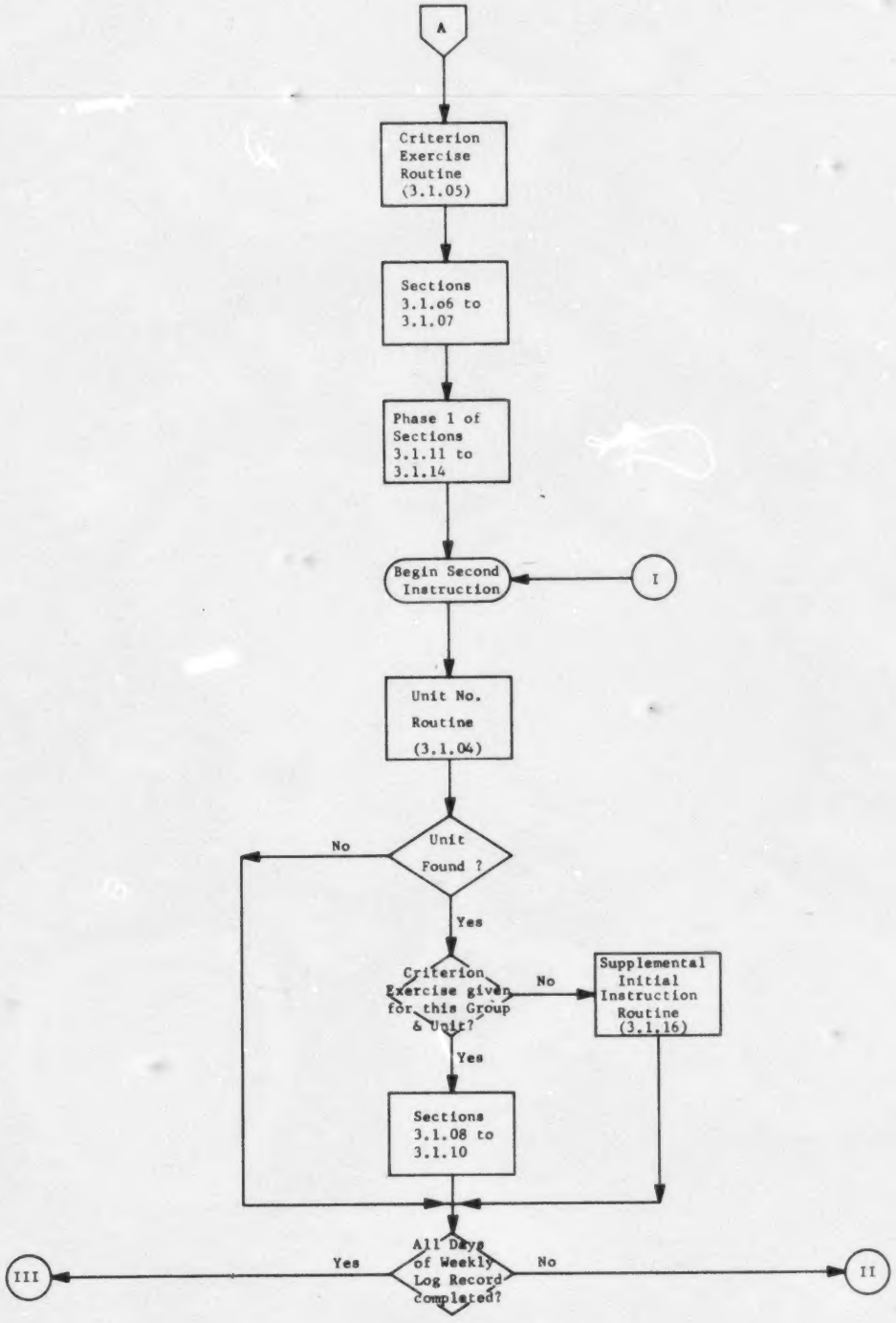
24

SWRI

FLOWCHART LAYOUT FORM

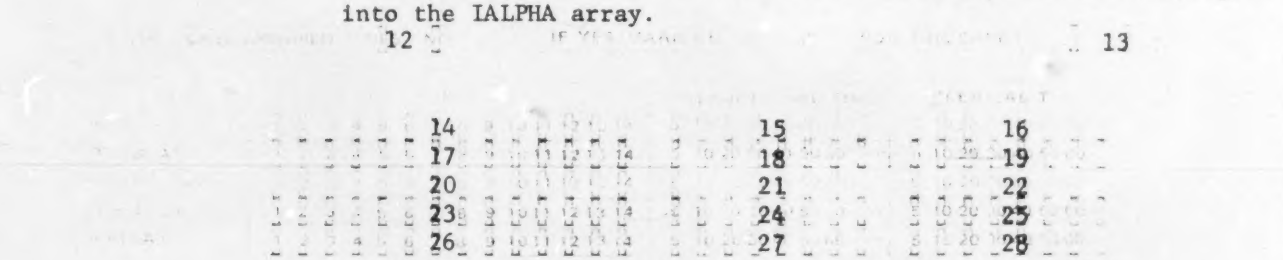
PROGRAMMER: Tom Foote and Howard Wolfe DATE: _____

PROGRAM ID: CS-1-WLSR1 PAGE 2 OF 2

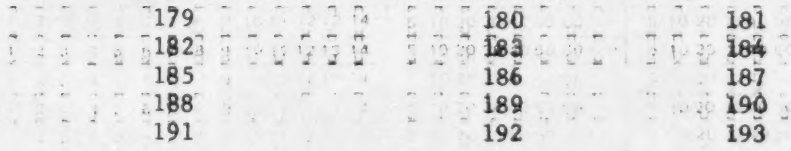


WEEKLY LOG: COMMUNICATIONS SKILLS PROGRAM

8th "Grid" of "Field" 5.
Field numbers correspond to subscripts of the IALPHA array.
The grid marked within each field is scanner coded to an alpha character (usually first grid coded to "A," second grid to "B," and so on), which is in turn stored by the WLSORT program into the IALPHA array.



MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY	
Skill or Activity	Daily Assessment Passed	Skill or Activity	Daily Assessment Passed	Skill or Activity	Daily Assessment Passed	Skill or Activity	Daily Assessment Passed	Skill or Activity	Daily Assessment Passed
29	30	31	32	33	34	35	36	37	38
39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58
59	60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	77	78
79	80	81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96	97	98
99	100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117	118
119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136	137	138
139	140	141	142	143	144	145	146	147	148
149	150	151	152	153	154	155	156	157	158
159	160	161	162	163	164	165	166	167	168
169	170	171	172	173	174	175	176	177	178



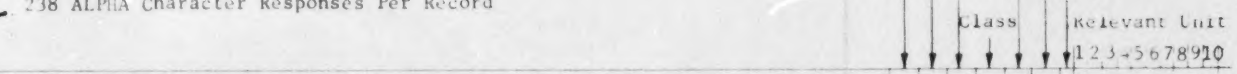
194	195	196	197	198	199	200	201	202
203	204	205	206	207	208	209	210	211
212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229
230	231	232	233	234	235	236	237	238

UTILITY FORM 5886 ... OPTICAL SCANNING CORPORATION

APPENDIX B

FORMAT OF THE INPUT RECORDS

238 ALPHA Character Responses Per Record



FILE NUMBER 1 RECORD NUMBER 60 LENGTH 44
BAABDBBABBDC IFCIFBIFCIGCIFD BA BC BABC
BA BA BC BA BC 130101 2 8130 10

FILE NUMBER 1 RECORD NUMBER 61 LENGTH 44
BAARDBBABCAC JGCJFBJEBJGCJGBBC BA BABC BA BABC BC BA
130101 2 8200 1

FILE NUMBER 1 RECORD NUMBER 62 LENGTH 44
BAARDBBABCHC JGCJHCJEC BC BA BC
BC 130101 2 8270 1

FILE NUMBER 1 RECORD NUMBER 63 LENGTH 44
BAAADBCAICGC AGBADBADAADBADG BB BC BBBCBC
130102 1 326010000D0000

FILE NUMBER 1 RECORD NUMBER 64 LENGTH 44
BAAADBCAJADC AD AHCAGBAGCAGA BC BC BA BBBB BC BB
130102 1 4 3010000000

FILE NUMBER 1 RECORD NUMBER 65 LENGTH 44
BAAADBCAJAJC AGBAGBAG AGA BC
BA BC BABCBC 130102 1 4 9010000000

FILE NUMBER 1 RECORD NUMBER 66 LENGTH 44
BAAADBCAJBHC AC AFC
BC BC AE AE B B 130102 1 417010000000

FILE NUMBER 1 RECORD NUMBER 67 LENGTH 44
BAAADBCAJCEC CBGAB A BA BC BB
BC AD AD D A A B B A 130102 1 424011000000

FILE NUMBER 1 RECORD NUMBER 68 LENGTH 44
BAAADBCAJDBC BG BGBBGBBGBBGA BABC BA BC BA BA
130102 1 4310 100000000

FILE NUMBER 1 RECORD NUMBER 69 LENGTH 44
BAAADBCAKAHC BFBBFBBGBBF BGB BA BA
BABC BA 130102 1 5 70 100000000

FILE NUMBER 1 RECORD NUMBER 70 LENGTH 44
BAAADHCAKBEC B BCFCHBCGACFA BA BBBA BC
BA BC BC BC BC AB AC BC 130102 1 5140 110000000

FILE NUMBER 1 RECORD NUMBER 71 LENGTH 44
BAAADBCAKCBC C BCCACE CFBCGB BA BA BC BBBB
BE BC BDD BC BC B 130102 1 5210 110000000

FILE NUMBER 1 RECORD NUMBER 72 LENGTH 44
BAAADHCAKCGC CEACHACH BA BA BA
130102 1 526C 10000000

Output Summary Blocks
Level of this Summary(either CLSS,TCHR,SCHL,DIST, or OVER)

Overall
District
School
Teacher
Class

Line No.

Number of Classes Used in the Denominator to Obtain the Average at this Level

Line No.												
0	UNIT 1 CLSS 0 1 1 1 1 OUTCOME	1		2		3		4		OTHER	TOTAL N=	1.
1	INITIAL INSTRUCTIONAL TIME	195.0000		20.0000		25.0000		95.0000		5.0000	340.0000	
2	INITIAL INSTRUCTIONAL DAYS	11.6667		1.5000		1.6333		7.5000		1.5000	24.0000	
3	SECOND INSTRUCTIONAL TIME	21.6667		21.6667		21.6667		15.0000		.0000	90.0000	
4	PRACTICE EXERCISE TIME	21.6667		21.6667		21.6667		15.0000		.0000	80.0000	
5	SECOND INSTRUCTIONAL DAYS	1.0833		1.0833		1.0833		.7500		.0000	4.5000	
6	ASSESSMENT NEEDED	7.0000	ASSESSMENT GIVEN			7.0000	%=	100.0000				
7	REVIEW NEEDED	5.0000	REVIEW GIVEN			5.0000	%=	100.0000				
8	AVG DAILY INITIAL INSTR. TIME	16.7143		13.3333		13.6364		12.6667		3.3333	14.1667	
9	AVG DAILY SECOND INSTR. TIME	20.0000		20.0000		20.0000		20.0000		.0000	20.0000	
10	% P. EX. TIME TO SEC. INSTR.	100.0000		100.0000		100.0000		100.0000		.0000	88.8889	
	UNIT 2 CLSS 0 1 1 1 1 OUTCOME	1		2		3		4		OTHER	TOTAL N=	1.
	INITIAL INSTRUCTIONAL TIME	192.1032		36.9444		45.6349		35.3175		20.0000	330.0000	
	INITIAL INSTRUCTIONAL DAYS	9.7302		2.7222		3.2817		1.7659		1.5000	19.0000	
	SECOND INSTRUCTIONAL TIME	70.0000		30.0000		30.0000		30.0000		.0000	160.0000	
	PRACTICE EXERCISE TIME	70.0000		30.0000		30.0000		30.0000		.0000	160.0000	
	SECOND INSTRUCTIONAL DAYS	4.6667		3.0000		2.6667		2.6667		.0000	13.0000	
	ASSESSMENT NEEDED	11.0000	ASSESSMENT GIVEN			8.0000	%=	72.7273				
	REVIEW NEEDED	5.0000	REVIEW GIVEN			5.0000	%=	100.0000				
	AVG DAILY INITIAL INSTR. TIME	19.7431		13.5714		13.9057		20.0000		13.3333	17.3684	
	AVG DAILY SECOND INSTR. TIME	15.0000		10.0000		11.2500		11.2500		.0000	12.3077	
	% P. EX. TIME TO SEC. INSTR.	100.0000		100.0000		100.0000		100.0000		.0000	100.0000	
	UNIT 3 CLSS 0 1 1 1 1 OUTCOME	1		2		3		4		OTHER	TOTAL N=	1.
	INITIAL INSTRUCTIONAL TIME	196.2857		34.8571		27.4286		51.4286		20.0000	330.0000	
	INITIAL INSTRUCTIONAL DAYS	9.3286		1.6857		1.8429		3.1429		1.0000	17.0000	
	SECOND INSTRUCTIONAL TIME	39.6667		35.6667		22.3333		22.3333		.0000	130.0000	
	PRACTICE EXERCISE TIME	35.6667		35.6667		22.3333		22.3333		.0000	116.0000	
	SECOND INSTRUCTIONAL DAYS	3.2167		2.8167		1.9833		1.9833		.0000	11.0000	
	ASSESSMENT NEEDED	9.0000	ASSESSMENT GIVEN			4.0000	%=	44.4444				
	REVIEW NEEDED	.0000	REVIEW GIVEN			.0000	%=	.0000				
	AVG DAILY INITIAL INSTR. TIME	21.0413		20.6780		14.3837		16.3636		20.0000	19.4118	
	AVG DAILY SECOND INSTR. TIME	12.3316		12.6627		11.2605		11.2605		.0000	11.8182	
	% P. EX. TIME TO SEC. INSTR.	89.9161		100.0000		100.0000		100.0000		.0000	89.2308	

```
11:23:45    @[illegible]R WLS,WLS
UCC 1108 FORTRAN V LEVEL 3.1
THIS COMPILATION WAS DONE ON 27 APR 71 AT 11:23:45
```

MAIN PROGRAM

STORAGE USED (BLOCK, NAME, LENGTH)

0001	*CODE	002771
0000	*DATA	021724
0002	*BLANK	000000

EXTERNAL REFERENCES (BLOCK, NAME)

0003	NTRAN
0004	DECODE
0005	NERR2$
0006	NWDU$
0007	NIO2$
0010	NSTOP$
0011	NRDU$
0012	NIO1$
0013	NWEF$

STORAGE ASSIGNMENT FOR VARIABLES (BLOCK, TYPE, RELATIVE LOCATION, NAME)

0001	000162 1000L	0001	000217 1001L	0001	001661 1002G	0001	000216 1002L	0001	000230 1003L
0001	001672 1013G	0001	001734 1034G	0001	001745 1042G	0001	001753 1047G	0001	002004 1064G
0001	002005 1067G	0001	001035 1069L	0001	001041 1069L	0001	001017 1072L	0001	001102 1076L
0001	000733 1092L	0001	001010 1093L	0001	000722 1101L	0001	000717 1102L	0001	000707 1104L
0001	002146 1105G	0001	000731 1105L	0001	002173 1120G	0001	002174 1123G	0001	000633 1130L
0001	002242 1136G	0001	002271 1146G	0001	002307 1156G	0001	002324 1164G	0001	002325 1167G
0001	000605 1200L	0001	002371 1203G	0001	002406 1213G	0001	002441 1223G	0001	002463 1232G
0001	002502 1241G	0001	002521 1250G	0001	000762 1250L	0001	002540 1257G	0001	002557 1266G
0001	002616 1311G	0001	002631 1316G	0001	002646 1325G	0001	002661 1332G	0001	002676 1341G
0001	002711 1346G	0001	002731 1364G	0001	002733 1370G	0001	002733 1373G	0001	002745 1402G
0001	000066 177G	0001	001574 2000L	0001	001575 2001L	0001	001670 2020L	0001	000073 203G
0001	001712 2030L	0001	001715 2031L	0001	002205 2050L	0001	002720 2051L	0001	000106 212G
0001	000137 225G	0001	000170 242G	0001	000225 263G	0001	001732 2667L	0001	001737 2689L
0001	002163 2700L	0001	000242 273G	0001	002722 2888L	0000	021372 30F	0001	000315 3001L
0001	000322 3002L	0001	000345 3003L	0001	000356 3004L	0001	000467 3008L	0001	000375 3064L
0001	000441 3065L	0001	000457 3066L	0001	001571 3077L	0001	000301 310G	0001	000337 331G
0001	000362 346G	0001	000464 400G	0001	001121 4000L	0001	000502 405G	0001	001224 4057L
0001	001245 4064L	0001	001462 4066L	0001	001363 4068L	0001	001367 4069L	0001	001526 4070L
0001	001336 4071L	0001	001345 4072L	0001	001560 4073L	0001	001531 4076L	0001	000520 415G
0001	000622 441G	0001	001163 4500L	0001	001170 4501L	0001	001226 4502L	0001	001213 4503L
0001	002754 5000L	0001	000777 511G	0001	001024 524G	0001	001061 536G	0001	001153 565G
0001	001205 604G	0001	001232 622G	0001	001257 637G	0001	001274 647G	0001	001352 665G
0001	001411 677G	0001	001625 752G	0001	001626 755G	0001	001627 760G	0001	001635 763G
0001	001660 774G	0001	001660 777G	0001	000004 899L	0000	021400 9000F	0000	021411 9001F
0000	021422 9002F	0000	021437 9003F	0000	021467 9004F	0000	021453 9006F	0000	021475 9007F
0000	021520 9008F	0000	021530 9009F	0000	021540 9010F	0000	021550 9011F	0000	021560 9012F
0000	021570 9013F	0000	021605 9014F	0000	021652 9015F	0000	021622 9017F	0000	021632 9018F
0000	021642 9019F	0001	000037 902L	0001	000043 903L	0001	000025 906L	0001	000013 907L
0001	002311 9193L	0001	000054 999L	0000	P 014541 AG	0000	I 000002 AGIVE	0000	R 014457 AN

```
0000 I 0016[illegible]NEED     0000 R 020233 AVG      0000 R 014623 AW[illegible]     0000 I 021310 I        0000 I 021327 IACT
0000 I 021357 IAG      0000 I 021356 IAN      0000 I 021036 IASSES   0000 I 021363 IAVG     0000 I 021264 IBLANK
0000 I 003412 ICON     0000 I 003444 ICR      0000 I 021314 ICRIEX   0000 I 021312 ICURU    0000 I 021305 IDAY
0000 I 021267 IEOF     0000 I 021266 IFIRST   0000 I 003467 IHDGS    0000 I 021317 IHI      0000 I 021304 ILEV
0000 I 021316 ILO      0000 I 010732 INDCRI   0000 I 021320 IOUT     0000 I 021270 IRECS    0000 I 021355 IRG
0000 I 021354 IRN      0000 I 021315 ISKILL   0000 I 021022 ISUN     0000 I 021371 ISWRL    0000 I 021344 IUNI
0000 I 021313 IUNIT    0000 I 021277 IWEEK    0000 I 021301 IX       0000 I 021265 I9       0000 I 021273 J
0000 I 021343 JACT     0000 I 020543 JALUNI   0000 I 003432 JCON     0000 I 021334 JCURU    0000 I 021321 JDAY
0000 I 021350 JDAYHI   0000 I 021351 JDAYLO   0000 I 021340 JHI      0000 I 021362 JLEV     0000 I 021337 JLO
0000 I 021326 JOUT     0000 I 021336 JSKILL   0000 I 021300 JSUN     0000 I 021335 JUNIT    0000 I 011511 JWKUNI
0000 I 021366 K        0000 I 021352 KDAYHI   0000 I 021353 KDAYLO   0000 I 011504 KDSTC    0000 I 021303 KGROUP
0000 I 021346 KGRP     0000 I 021345 KLINE    0000 I 021341 KOUT     0000 I 021306 KPUNI    0000 I 007104 KRG
0000 I 005300 KRN      0000 I 021360 KSKILL   0000 I 021302 KWEEK    0000 I 021323 K1       0000 I 021324 K2
0000 I 021365 L        0000 I 011026 LDSTC    0000 I 021272 LEV      0000 I 021307 LGRID    0000 I 021330 LGRID2
0000 I 021006 LNWKS    0000 I 021347 LWEEK    0000 I 021322 M        0000 I 011033 MALPHA   0000 I 000000 MAX
0000 I 011430 MBUFF    0000 I 021275 MDAY     0000 I 011423 MDSTC    0000 I 021276 MGROUP   0000 I 000001 MIN
0000 I 021361 MLEV     0000 I 021333 MMAX     0000 I 021332 MMIN     0000 I 021274 MONTH    0000 I 003456 MOUTCO
0000 I 021271 MSTAT    0000 I 011411 MUNIT    0000 I 021311 NBOT     0000 I 020555 NGRPS    0000 I 021364 NLEV
0000 I 020315 NOUTCO   0000 I 021331 NPT      0000 R 010716 PACT     0000 R 021367 PAGAN    0000 R 021370 PRGRN
0000 R 010710 RACT     0000 R 003474 RAVG1    0000 R 004150 RAVG2    0000 R 004624 RAVG3    0000 R 020724 RG
0000 R 021325 RMINS    0000 R 020642 RN       0000 R 010724 SACT     0000 R 021342 SMINS    0000 R 011523 XWEEK
```

```
00101     1*          INTEGER AGIVE,ANEED
00103     2*          DIMENSION ICON(2,8),JCON(10),ICR(10),NOUTCO(9)
00104     3*          DIMENSION IHDGS(5),RAVG1(10,6,5),RAVG2(10,6,5),RAVG3(10,6,5)
00105     4*          DIMENSION KRN(6,10,15),KRG(6,10,15)
00106     5*          DIMENSION ANEED(6,10,15), AGIVE(6,10,15)
00107     6*          DIMENSION          RACT(6),PACT(6),SACT(6)
00110     7*          DIMENSION INDCRI(10,6),LDSTC(5)
00111     8*          DIMENSION MALPHA(238),MUNIT(10),MDSTC(5),MBUFF(44),KDSTC(5)
00112     9*          DIMENSION JWKUNI(10),XWEEK(10,6,5,5),AN(10,5),AG(10,5),
00112    10*         1          AWEEK(6,10,6,5),AVG(10,5)
00113    11*         DIMENSION NOUTCO(10,15)
00114    12*         DIMENSION JALUNI(10),NGRPS(5),RN(10,5),RG(10,5)
00115    13*         DIMENSION LNWKS(12),ISUN(12)
00116    14*         DIMENSION IASSES(10,15)
00117    15*         DATA IBLANK/' '/
00121    16*         DATA ISUN /6,3,7,5,2,7,4,8,8,5,3,7/
00123    17*         DATA LNWKS/1,5,10,14,18,23,27,32,36,40,44,49/
00125    18*         DATA NOUTCO/1,1,2,2,3,3,4,4,5/
00127    19*         DATA ICR/15,14,12,13,10,10,9,12,15,11/
00131    20*         DATA ICON/'A',5,'B',10,'C',20,'D',30,'E',40,'F',50,'G',60,
00131    21*        1'H',70/
00133    22*         DATA IHDGS/'OVER','DIST','SCHL','TCHR','CLSS'/
00135    23*         DATA JCON/'A','B','C','D','E','F','G','H','I','J'/
00137    24*         DATA NOUTCO/5,2,1,4,3,2,4,3,4,5,
00137    25*        1            4,3,2,2,3,3,3,1,3,3,
00137    26*        1            5,3,3,3,1,1,1,2,1,1,
00137    27*        1            1,1,1,3,2,2,2,3,5,3,
00137    28*        1            2,2,2,1,3,3,3,1,1,1,
00137    29*        1            3,3,3,2,1,1,1,5,3,5,
00137     3 *        1            1,3,3,1,4,1,1,3,1,1,
00137    31*        1            4,1,1,3,3,3,1,1,4,5,
00137    32*        1            5,4,4,3,1,1,5,1,5,1,
00137    33*        1            1,1,1,1,5,5,5,5,1,1,
00137    34*        1            3,1,1,1,5,5,5,1,2,5,
00137    35*        1            2,1,5,1,5,5,5,5,3,5,
00137    36*        1            3,1,5,5,5,5,5,5,5,5,
00137    37*        1            1,5,5,5,5,5,5,5,1,5,
00137    38*        1            5,5,5,5,5,5,5,5,5,5/
```

```
00141    39*          DATA  IASSES/0,1,1,1,0, 1,1,1,1,0,
00141    40*         1              1,0,1,1,1, 1,1,1,1,1,
00141    41*         1              0,1,0,0,1, 1,1,1,1,1,
00141    42*         1              1,1,1,1,1, 1,1,1,0,1,
00141    43*         1              0,1,1,1,1, 1,1,1,1,1,
00141    44*         1              0,0,0,1,1, 1,1,0,1,0,
00141    45*         1              1,1,1,1,1, 1,1,1,1,1,
00141    46*         1              1,1,1,0,0, 1,1,1,0,0,
00141    47*         1              0,1,1,1,1, 1,0,1,1,1,
00141    48*         1              1,1,1,1,0, 0,0,0,1,1,
00141    49*         1              0,1,1,1,0, 0,0,1,1,0,
00141    50*         1              1,1,0,1,0, 0,0,0,0,0,
00141    51*         1              0,1,0,0,0, 0,0,0,1,0,
00141    52*         1              1,0,0,0,0, 0,0,0,1,0,
00141    53*         1              0,0,0,0,0, 0,0,0,0,0/
00143    54*           30 FORMAT(132A1/106A1,4I2,2I2,I1,10I1,3X)
00144    55*         9000 FORMAT(' NTRAN ERROR NO.=',I5,1X,'RECORD COUNT= ',I8/)
00145    56*         9001 FORMAT(' CALENDAR ROUTINE ERROR. RECORD COUNT= ',I5/)
00146    57*         9002 FORMAT(' MORE THAN ONE SHEET PER WEEK FOR A',1X,
00146    58*            1'GROUP AT RECORD NO.=',I8/)
00147    59*         9003 FORMAT(' FAILED TO FIND UNIT IN ''DO 1003 LOOP''',1X,
00147    60*            1'FOR RECORD NO.=',I8/)
00150    61*         9006 FORMAT(' FAILED TO FIND UNIT IN ''DO 4503 LOOP''',1X,
00150    62*            1'FOR RECORD NO.=',I8/)
00151    63*         9004 FORMAT(' NORMAL END. RECORD COUNT=',I5/)
00151    64*       C  INITIALIZATION
00152    65*            IFIRST=1
00153    66*            IEOF=0
00154    67*            IRECS=0
00154    68*       C  TAPE INPUT
00155    69*         899 CALL NTRAN(2,2,44,MBUFF,MSTAT)
00156    70*         907 IF(MSTAT.EQ.-1) GOTO 907
00160    71*            IF(MSTAT.GT.0) GOTO 999
00162    72*            MSTAT=-MSTAT
00163    73*         906 GOTO(906,902,903,903),MSTAT
00164    74*         902 IEOF=1
00165    75*            LEV=1
00166    76*            GOTO 2000
00167    77*         903 WRITE(6,9000) MSTAT,IRECS
00173    78*            STOP 1
00174    79*         999 CALL DECODE(MBUFF,132)
00175    80*            READ(31,30) MALPHA,(MDSTC(J),J=2,5),MONTH,MDAY,MGROUP,MUNIT
00216    81*            IF(MDSTC(2).EQ.99) GOTO 902
00220    82*            MGROUP=MGROUP+1
00221    83*            IRECS=IRECS+1
00221    84*       C  CALENDAR ROUTINE
00222    85*            IWEEK=LWKS(MONTH)
00223    86*            JSUN=ISUN(MONTH)
00224    87*            DO 950 IX=JSUN,38,7
00227    88*            IF(MDAY.LT.IX) GOTO 1000
00231    89*          950 IWEEK=IWEEK+1
00233    90*            WRITE(6,9001)     IRECS
00236    91*            STOP 2
00236    92*       C  CONTROL ROUTINE
00237    93*         1000 IF(IFIRST.EQ.1) GOTO 1002
00241    94*            DO 1006 LEV=2,5
00244    95*            IF(MDSTC(LEV).NE.KDSTC(LEV)) GOTO 2000
00246    96*         1006 CONTINUE
00250    97*            IF(KWEEK.NE.IWEEK) GOTO 2000
00252    98*            IF(KGROUP.EQ.MGROUP) WRITE(6,9002) IRECS
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00256    99*          GOTO 1003
00257   100*     1002 IFIRST=1
00260   101*     1001 IF(IEOF.EQ.1) GOTO 5000
00262   102*          DO 1004 ILEV=2,5
00265   103*     1004 KDSTC(ILEV)=MDSTC(ILEV)
00267   104*     1003 KWEEK=IWEEK
00270   105*          KGROUP=MGROUP
00271   106*          NGRPS(IWEEK)=NGRPS(IWEEK) + 1
00271   107*     C  BEGIN TO PROCESS WEEKLY LOG PAGE
00271   108*     C  INITIAL INSTRUCTION
00272   109*          DO 3077 IDAY=1,5
00275   110*          KPUNI=0
00275   111*     C  ASSIGN INITIAL INSTRUCTION UNIT NUMBER
00276   112*          LGRID=14+(IDAY-1)*3
00277   113*          I=LGRID
00300   114*          NBOT=LGRID
00301   115*          IF(MALPHA(LGRID),NE.IBLANK) GOTO 3004
00303   116*          IF(MALPHA(LGRID+1),NE.IBLANK) GOTO 3001
00305   117*          MIN=LGRID+14-IDAY
00306   118*          MAX=MIN+140
00307   119*          DO 3056 I=MIN,MAX,10
00312   120*          IF(MALPHA(I),NE.IBLANK) GOTO 3001
00314   121*          IF(MALPHA(I+1),NE.IBLANK) GOTO 3001
00316   122*     3056 CONTINUE
00320   123*          GOTO 4000
00321   124*     3001 IF(ICURU.EQ.0) GOTO 3002
00323   125*          IUNIT=ICURU
00324   126*          GOTO 3064
00325   127*     3002 NBOT=NBOT+3
00326   128*          IF(NBOT.GT.26) GOTO 4000
00330   129*          DO 3003 I=NBOT,26,3
00333   130*          IF(MALPHA(I),EQ.IBLANK) GOTO 3003
00335   131*          GOTO 3004
00336   132*     3003 CONTINUE
00340   133*          WRITE(6,9003) IDECS
00343   134*          GOTO 4000
00344   135*     3004 IUNIT=0
00345   136*          DO 3005 J=1,10
00350   137*          IF(MALPHA(I).EQ.JOCUN(J)) IUNIT=J
00352   138*     3005 CONTINUE
00354   139*          IF(IUNIT.EQ.0) GOTO 3002
00356   140*     3064 ICURU=IUNIT
00357   141*          IF(INDCRI(IUNIT,MGROUP).NE.0) GOTO 4010
00361   142*          KPUNI=IUNIT
00362   143*          JWKUNI(IUNIT)=1
00363   144*          JALUNI(IUNIT)=1
00363   145*     C  CRITERION EXERCISE ROUTINE
00364   146*          ICRIEX=LGRID+16-IDAY+ICP(IUNIT)*10-10
00365   147*          IF(MALPHA(ICRIEX),NE.IBLANK) GOTO 3065
00367   148*          IF(MALPHA(ICRIEX+1),NE.IBLANK) GOTO 3065
00371   149*          GOTO 3008
00372   150*     3065 IF(MGROUP.EQ.1) GOTO 3066
00374   151*          INDCRI(IUNIT,MGROUP)=1
00375   152*          INDCRI(IUNIT,6)     =1
00376   153*          GOTO 3008
00377   154*     3066 DO 3066 I=1,6
00402   155*     3066 INDCRI(IUNIT,I)=1
00404   156*     3008 DO 3067 I=1,6
00407   157*     3067 PACT(I)=0
00411   158*          ISKILL=0
```

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00412  150*          ILO=27+2*IDAY
00413  160*          IHI=ILO+140
00414  161*          DO 1072 J=ILO,IHI,10
00417  162*          ISKILL=ISKILL+1
00417  163*    C  COUNT ACTIVITIES WITHIN OUTCOME
00420  164*          IF(MALPHA(J).EQ.IBLANK.AND.MALPHA(J+1).EQ.IBLANK) GOTO 1072
00422  165*          IOUT=NOUTCO(IUNIT,ISKILL)
00423  166*          RACT(IOUT)=RACT(IOUT)+1
00424  167*          RACT(6)=RACT(6)+1
00424  168*    C  COUNT ASSESMENT NEEDED AND ASSESMENT GIVEN
00425  169*          IF(IASSES(IUNIT,ISKILL).EQ.0) GOTO 1072
00427  170*          JDAY=IWEEK*5-5+IDAY
00430  171*          IF(MGROUP.EQ.1) GOTO 1200
00432  172*          IF(ANEED(1,IUNIT,ISKILL).NE.0) GOTO 1130
00434  173*          IF(ANEED(MGROUP,IUNIT,ISKILL).NE.0) GOTO 1130
00436  174*          ANEED(MGROUP,IUNIT,ISKILL)=JDAY
00437  175*          GOTO 1130
00440  176*   1200 DO 1202 M=1,6
00443  177*          IF(ANEED(M,IUNIT,ISKILL).NE.0) GOTO 1130
00445  178*   1202 CONTINUE
00447  179*          ANEED(1,IUNIT,ISKILL)=JDAY
00450  180*   1130 IF((MALPHA(J+1).EQ.JCON(1).OR.
00450  181*       1MALPHA(J+1).EQ.JCON(2)).AND.ANEED(MGROUP,IUNIT,ISKILL).EQ.JDAY)
00450  182*       2AGIVE(MGROUP,IUNIT,ISKILL)=JDAY
00450  183*    C  INDICATE IF REVIEW NEEDED OR REVIEW GIVEN
00452  184*          K1=KRN(MGROUP,IUNIT,ISKILL)
00453  185*          K2=KRG(MGROUP,IUNIT,ISKILL)
00454  186*          IF(MALPHA(J+1).NE.JCON(2)) GOTO 1101
00456  187*          IF(K1.EQ.0) GOTO 1102
00460  188*          IF(K1.EQ.-1) GOTO 1072
00462  189*          IF(K2.NE.0) GOTO 1092
00464  190*   1104 IF(K1+1.NE.JDAY) GOTO 1092
00466  191*          K2=JDAY
00467  192*          GOTO 1092
00470  193*   1102 K1=JDAY
00471  194*          GOTO 1092
00472  195*   1101 IF(K1.EQ.0) GOTO 1105
00474  196*          IF(K1.EQ.-1) GOTO 1092
00476  197*          GOTO 1104
00477  198*   1105 K1=-1
00500  199*   1092 IF(MGROUP.EQ.1) GOTO 1250
00502  200*          IF(KRN(1,IUNIT,ISKILL).NE.0) GOTO 1093
00504  201*          IF(KRN(MGROUP,IUNIT,ISKILL).NE.0) GOTO 1093
00506  202*          KRN(MGROUP,IUNIT,ISKILL)=K1
00507  203*          GOTO 1093
00510  204*   1250 DO 1252 M=1,6
00513  205*          IF(KRN(M,IUNIT,ISKILL).NE.0) GOTO 1093
00515  206*   1252 CONTINUE
00517  207*          KRN(1,IUNIT,ISKILL)=K1
00520  208*   1093 KRG(MGROUP,IUNIT,ISKILL)=K2
00521  209*   1072 CONTINUE
00521  210*    C  DECODE INITIAL INSTRUCTIONAL TIME
00523  211*          DO 1068 J=1,8
00526  212*          IF(MALPHA(LGRID+1).NE.ICON(1,J)) GOTO 1068
00530  213*          RMINS=ICON(2,J)
00531  214*          GOTO 1069
00532  215*   1068 CONTINUE
00534  216*          RMINS=0
00534  217*    C  ACCUMULATE INITIAL INSTRUCTIONAL TIME AND DAYS FOR WEEK
00535  218*    1069 DO 1070 JOUT=1,6
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00540   219*          IACT=RACT(6)+.5
00540   220*    C  IF NO SKILLS OR ACTIVITIES ASSIGNED ADD INITIAL INSTRUCTIONAL TIME
00540   221*    C  TO 'OTHER' COLUMN
00541   222*          IF(IACT.EQ.0) GOTO 1076
00543   223*          AWEEK(MGROUP,IUNIT,JOUT,1)=RMINS*(RACT(JOUT)/RACT(6))+
00543   224*         1AWEEK(MGROUP,IUNIT,JOUT,1)
00544   225*          AWEEK(MGROUP,IUNIT,JOUT,2)=RACT(JOUT)/RACT(6)
00544   226*         1                          +AWEEK(MGROUP,IUNIT,JOUT,2)
00545   227*     1070 CONTINUE
00547   228*          GOTO 4000
00550   229*     1076 AWEEK(MGROUP,IUNIT,5,1)=RMINS+AWEEK(MGROUP,IUNIT,5,1)
00551   230*          AWEEK(MGROUP,IUNIT,6,1)=RMINS+AWEEK(MGROUP,IUNIT,6,1)
00552   231*          AWEEK(MGROUP,IUNIT,5,2)=1+AWEEK(MGROUP,IUNIT,5,2)
00553   232*          AWEEK(MGROUP,IUNIT,6,2)=1+AWEEK(MGROUP,IUNIT,6,2)
00553   233*    C  SECOND INSTRUCTION
00553   234*    C  ASSIGN SECOND INSTRUCTION UNIT NUMBER
00554   235*     4000 LGRID2 = LGRID + 165
00555   236*          NPT=LGRID2
00556   237*          IF(MALPHA(LGRID2).NE.IBLANK) GOTO 4057
00560   238*          IF(MALPHA(LGRID2+1).NE.IBLANK) GOTO 4500
00562   239*          MMIN=194 + (IDAY-1)*9
00563   240*          MMAX=MMIN+8
00564   241*          DO 4058 J=MMIN,MMAX
00567   242*          IF(MALPHA(J).NE.IBLANK) GOTO 4500
00571   243*     4058 CONTINUE
00573   244*          GOTO 3077
00574   245*     4500 IF(JCURU.EQ.0) GOTO 4501
00576   246*          JUNIT=JCURU
00577   247*          GOTO 4064
00600   248*     4501 NPT=NPT + 3
00601   249*          IF(NPT.GT.191) GOTO 3077
00603   250*          DO 4503 I=NPT,191,3
00606   251*          IF(MALPHA(I).EQ.IBLANK) GOTO 4503
00610   252*          GOTO 4502
00611   253*     4503 CONTINUE
00613   254*          WRITE(6,9006) IRECS
00616   255*          GOTO 3077
00617   256*     4057 I=LGRID2
00620   257*     4502 JUNIT=0
00621   258*          DO 4504 J=1,10
00624   259*          IF(MALPHA(I).EQ.JCON(J)) JUNIT=J
00626   260*     4504 CONTINUE
00630   261*          IF(JUNIT.EQ.0) GOTO 4501
00632   262*     4064 JCURU=JUNIT
00633   263*     4065 JWKUNI(JUNIT)=1
00634   264*          JALUNI(JUNIT)=1
00634   265*    C  COUNT SECOND INSTRUCTION EXERCISES AND PRACTICE EXERCISES
00635   266*          JSKILL=0
00636   267*          DO 4067 I=1,6
00641   268*          PACT(I)=0
00642   269*     4067 SACT(I)=0
00644   270*          JLO=194+(IDAY-1)*9
00645   271*          JHI=JLO+8
00646   272*          DO 4072 J=JLO,JHI
00651   273*          JSKILL=JSKILL + 1
00652   274*          IF(MALPHA(J).EQ.IBLANK) GOTO 4072
00654   275*          KOUT=MOUTCO(JSKILL)
00655   276*          SACT(KOUT)=SACT(KOUT) + 1
00656   277*          SACT(6)   =SACT(6)    + 1
00657   278*          GOTO(4071,4072,4071,4072,4071,4072,4071,4072,4072),JSKILL
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00660   279*     4071 PACT(KOUT)=PACT(KOUT)+1
00661   280*          PACT(6)=PACT(6)+1
00662   281*     4072 CONTINUE
00662   282*     C  DECODE SECOND INSTRUCTIONAL TIME
00664   283*          DO 4068 J=1,8
00667   284*          IF(MALPHA(LGRID2+1).NE.ICON(1,J)) GOTO 4068
00671   285*          SMINS=ICON(2,J)
00672   286*          GOTO 4069
00673   287*     4068 CONTINUE
00675   288*          SMINS=0
00675   289*     C  IF CRITERION EXERCISE GIVE ACCUMULATE  TIME, P. EX. TIME, AND DAYS
00675   290*     C  INTO SECOND INSTRUCTION BLOCK, OTHERWISE ADD TIME TO OTHER OF
00675   291*     C  INITIAL INSTRUCTION BLOCK AND IF DAY NOT ALREADY COUNTED FOR THIS
00675   292*     C  UNIT ADD DAY TO INITIAL INSTRUCTION BLOCK IN THE SAME MANNER
00676   293*     4069 DO 4070 KOUT=1,6
00701   294*          IF(INDCRI(JUNIT,MGROUP).NE.0) GOTO 4066
00703   295*          JACT=SACT(6)+.5
00704   296*          IF(JACT.EQ.0) GOTO 4076
00706   297*          AWEEK(MGROUP,JUNIT,KOUT,1)=SMINS*(SACT(KOUT)/SACT(6)) +
00706   298*         1AWEEK(MGROUP,JUNIT,KOUT,1)
00707   299*          IF(KPUNI.EQ.JUNIT) GOTO 4070
00711   300*          AWEEK(MGROUP,JUNIT,KOUT,2)=SACT(KOUT)/SACT(6) +
00711   301*         1AWEEK(MGROUP,JUNIT,KOUT,2)
00712   302*          GOTO 4070
00713   303*     4066 JACT=SACT(6)+.5
00714   304*          IF(JACT.EQ.0) GOTO 4073
00716   305*          AWEEK(MGROUP,JUNIT,KOUT,3)=SMINS*(SACT(KOUT)/SACT(6))+
00716   306*         1AWEEK(MGROUP,JUNIT,KOUT,3)
00717   307*          AWEEK(MGROUP,JUNIT,KOUT,5)=SACT(KOUT)/SACT(6)+
00717   308*         1AWEEK(MGROUP,JUNIT,KOUT,5)
00720   309*     4074 JACT=PACT(6)+.5
00721   310*          IF(JACT.EQ.0) GOTO 4070
00723   311*          AWEEK(MGROUP,JUNIT,KOUT,4)=SMINS*(PACT(KOUT)/SACT(6))+
00723   312*         1AWEEK(MGROUP,JUNIT,KOUT,4)
00724   313*     4070 CONTINUE
00726   314*          GOTO 3077
00727   315*     4076 AWEEK(MGROUP,JUNIT,6,1)=SMINS+AWEEK(MGROUP,JUNIT,6,1)
00730   316*          AWEEK(MGROUP,JUNIT,5,1)=SMINS+AWEEK(MGROUP,JUNIT,5,1)
00731   317*          IF(KPUNI.EQ.JUNIT) GOTO 3077
00733   318*          AWEEK(MGROUP,JUNIT,6,2)=1     +AWEEK(MGROUP,JUNIT,6,2)
00734   319*          AWEEK(MGROUP,JUNIT,5,2)=1 + AWEEK(MGROUP,JUNIT,5,2)
00735   320*          GOTO 3077
00736   321*     4073 AWEEK(MGROUP,JUNIT,6,5)=1 + AWEEK(MGROUP,JUNIT,6,5)
00737   322*          AWEEK(MGROUP,JUNIT,6,3)=SMINS + AWEEK(MGROUP,JUNIT,6,3)
00740   323*     3077 CONTINUE
00742   324*          GOTO 899
00742   325*     C ACCUMULATE WEEKS
00743   326*     2000 IUNI=0
00744   327*     2001 IUNI=IUNI+1
00745   328*          IF(IUNI.GT.10) GOTO 2020
00747   329*          IF(JWKUNI(IUNI).EQ.0) GOTO 2001
00751   330*          DO 2006 KLINE=1,5
00754   331*          DO 2006 KOUT=1,6
00757   332*          DO 2006 KGRP=1,6
00762   333*          DO 2006 ILEV=1,5
00765   334*          XWEEK(IUNI,KOUT,KLINE,ILEV)=
00765   335*         1XWEEK(IUNI,KOUT,KLINE,ILEV)+AWEEK(KGRP,IUNI,KOUT,KLINE)
00765   33 *         2/(NGRPS(KWEEK)*1.)
00766   337*     2006 CONTINUE
00773   338*          DO 2008 KLINE=1,5
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      776   339*          DO 2008 KOUT=1,6
     01001  340*          DO 2008 KGRP=1,6
     01004  341*     2008 AWEEK(KGRP,IUNI,KOUT,KLINE)=0
     01010  342*          JWKJNI(IUNI)=0
     01011  343*          GOTO 2001
     01012  344*     2020 DO 2022 ILEV=2,5
     01015  345*          IF(MDSTC(ILEV).LE.KDSTC(ILEV).OR.IERF.EQ.1) GOTO 2030
     01017  346*     2022 CONTINUE
     01021  347*          GOTO 1003
     01022  348*     2030 ICURU=0
     01023  349*          JCURU=0
     01024  350*          IUNI=0
     01025  351*     2031 IUNI=IUNI+1
     01026  352*          IF(IUNI.GT.10) GOTO 2687
     01030  353*          IF(JALUNI(IUNI).EQ.0) GOTO 2050
     01032  354*          GOTO 2689
     01033  355*     2687 DO 2684 LWEEK=1,53
     01036  356*     2684 NGRPS(LWEEK)=0
     01040  357*          GOTO 1001
     01040  358*     C  COUNT REVIEW NEEDED AND REVIEW GIVEN
     01041  359*     2689 DO 2688 ILEV=1,5
     01044  360*     2688 AVG(IUNI,ILEV)=AVG(IUNI,ILEV)+1.0
     01046  361*          DO 2700 LWEEK=1,53
     01051  362*          IF(NGRPS(LWEEK).EQ.0) GOTO 2700
     01053  363*          JDAYHI=LWEEK*5
     01054  364*          JDAYLO=JDAYHI-4
     01055  365*          KDAYHI=JDAYHI+1
     01056  366*          KDAYLO=JDAYLO+1
     01057  367*          IRN=0
     01060  368*          IRG=0
     01061  369*          IAN=0
     01062  370*          IAG=0
     01063  371*          DO 2600 KGRP=1,6
     01066  372*          DO 2600 KSKILL=1,15
     01071  373*          IF(KRN(KGRP,IUNI,KSKILL).GE.JDAYLO.AND.
     01071  374*         1   KRN(KGRP,IUNI,KSKILL).LE.JDAYHI) IRN=IRN+1
     01073  375*          IF(KRG(KGRP,IUNI,KSKILL).GE.KDAYLO.AND.
     01073  376*         1   KRG(KGRP,IUNI,KSKILL).LE.KDAYHI) IRG=IRG+1
     01075  377*          IF(ANEED(KGRP,IUNI,KSKILL).GE.JDAYLO.AND.
     01075  378*         1     ANEED(KGRP,IUNI,KSKILL).LE.JDAYHI) IAN=IAN+1
     01077  379*          IF(AGIVE(KGRP,IUNI,KSKILL).GE.JDAYLO.AND.
     01077  380*         1     AGIVE(KGRP,IUNI,KSKILL).LE.JDAYHI) IAG=IAG+1
     01101  381*     2600 CONTINUE
     01104  382*          DO 2602 ILEV=1,5
     01107  383*          RN(IUNI,ILEV)=RN(IUNI,ILEV)+(IRN*1.0)/(NGRPS(LWEEK)*1.0)
     01110  384*          RG(IUNI,ILEV)=RG(IUNI,ILEV)+(IRG*1.0)/(NGRPS(LWEEK)*1.0)
     01111  385*          AN(IUNI,ILEV)=AN(IUNI,ILEV)+(IAN*1.0)/(NGRPS(LWEEK)*1.0)
     01112  386*          AG(IUNI,ILEV)=AG(IUNI,ILEV)+(IAG*1.0)/(NGRPS(LWEEK)*1.0)
     01113  387*     2602 CONTINUE
     01115  388*     2700 CONTINUE
     01117  389*          DO 2702 KGRP=1,6
     01122  390*          DO 2702 KSKILL=1,15
     01125  391*          KRN(KGRP,IUNI,KSKILL)=0
     01126  392*          KRG(KGRP,IUNI,KSKILL)=0
     01127  393*          AGIVE(KGRP,IUNI,KSKILL)=0
     01130  394*          ANEED(KGRP,IUNI,KSKILL)=0
     01131  395*     2702 CONTINUE
     01131  396*     C  OUTPUT ROUTINE
     01134  397*     2050 MLEV=0
     01135  398*          DO 2888 ILEV=LEV,5
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01140   399*          MLEV=MLEV+1
01141   400*          JLEV=6-MLEV
01142   401*          IAVG=AVG(IUNI,JLEV)+.5
01143   402*          IF(IAVG.EQ.0) GOTO 2888
01145   403*          DO 9075 J=1,JLEV
01150   404*     9075 LDSTC(J)=KDSTC(J)
01152   405*          IF(JLEV.EQ.5) GOTO 9193
01154   406*          NLEV=JLEV+1
01155   407*          DO 9076 J=NLEV,5
01160   408*     9076 LDSTC(J)=0
01162   409*     9007 FORMAT(1X,'UNIT ',I2,1X,A4,1X,5I2,' OUTCOME   1',9X,'2',
01162   410*         1 9X,'3',9X,    '4',6X,   'OTHER',6X,       'TOTAL',
01162   411*         1 '  N=',F6.0)
01163   412*     9193 DO 9016 L=1,5
01166   413*          DO 9016 K=1,6
01171   414*     9016 XWEEK(IUNI,K,L,JLEV)=XWEEK(IUNI,K,L,JLEV)/AVG(IUNI,JLEV)
01174   415*          AN(IUNI,JLEV)=AN(IUNI,JLEV)/AVG(IUNI,JLEV)
01175   416*          AG(IUNI,JLEV)=AG(IUNI,JLEV)/AVG(IUNI,JLEV)
01176   417*          RN(IUNI,JLEV)=RN(IUNI,JLEV)/AVG(IUNI,JLEV)
01177   418*          RG(IUNI,JLEV)=RG(IUNI,JLEV)/AVG(IUNI,JLEV)
01200   419*          PAGAN=100.0*(AG(IUNI,JLEV)/AN(IUNI,JLEV))
01201   420*          PRGRN=100.0*(RG(IUNI,JLEV)/RN(IUNI,JLEV))
01202   421*          DO 9047 K=1,6
01205   422*          RAVG1(IUNI,K,JLEV)=XWEEK(IUNI,K,1,JLEV)/
01205   423*         1                   XWEEK(IUNI,K,2,JLEV)
01206   424*          RAVG2(IUNI,K,JLEV)=XWEEK(IUNI,K,3,JLEV)/
01206   425*         1                   XWEEK(IUNI,K,5,JLEV)
01207   426*          RAVG3(IUNI,K,JLEV)=100.0*XWEEK(IUNI,K,4,JLEV)/
01207   427*         1                           XWEEK(IUNI,K,3,JLEV)
01210   428*     9047 CONTINUE
01212   429*          DO 2051 ISWRL=6,6,2
01215   430*          IF(ISWRL.EQ.6.AND.JLEV.NE.5) GOTO 2051
01217   431*          WRITE(ISWRL,9007) IUNI,IHDGS(JLEV),(LDSTC(J),J=1,5)
01217   432*         1 ,AVG(IUNI,JLEV)
01230   433*          WRITE(ISWRL,9008)(XWEEK(IUNI,K,1,JLEV),K=1,6)
01236   434*     9008 FORMAT(1X,'INITIAL INSTRUCTIONAL TIME   ',6(F10.4))
01237   435*          WRITE(ISWRL,9009)(XWEEK(IUNI,K,2,JLEV),K=1,6)
01245   436*     9009 FORMAT(1X,'INITIAL INSTRUCTIONAL DAYS   ',6(F10.4))
01246   437*          WRITE(ISWRL,9010)(XWEEK(IUNI,K,3,JLEV),K=1,6)
01254   438*     9010 FORMAT(1X,'SECOND INSTRUCTIONAL TIME    ',6(F10.4))
01255   439*          WRITE(ISWRL,9011)(XWEEK(IUNI,K,4,JLEV),K=1,6)
01263   440*     9011 FORMAT(1X,'PRACTICE EXERCISE TIME       ',6(F10.4))
01264   441*          WRITE(ISWRL,9012)(XWEEK(IUNI,K,5,JLEV),K=1,6)
01272   442*     9012 FORMAT(1X,'SECOND INSTRUCTIONAL DAYS    ',6(F10.4))
01273   443*          WRITE(ISWRL,9013)AN(IUNI,JLEV),AG(IUNI,JLEV),PAGAN
01300   444*     9013 FORMAT(1X,'ASSESSMENT NEEDED',F10.4,1X,'ASSESSMENT GIVEN',F10.4,
01300   445*         1 2X,'%=',F10.4)
01301   446*          WRITE(ISWRL,9014) RN(IUNI,JLEV),RG(IUNI,JLEV),PRGRN
01305   447*     9014 FORMAT(' REVIEW NEEDED',4X,F10.4,' REVIEW GIVEN    ',F10.4,
01306   448*         1 2X,'%=',F10.4)
01307   449*          WRITE(ISWRL,9017)(RAVG1(IUNI,K,JLEV),K=1,6)
01315   450*          DO 9091 K=1,6
01320   451*     9091 RAVG1(IUNI,K,JLEV)=0
01322   452*     9017 FORMAT(1X,'AVG DAILY INITIAL INSTR. TIME',6(F10.4))
01323   453*          WRITE(ISWRL,9018)(RAVG2(IUNI,K,JLEV),K=1,6)
01331   454*          DO 9092 K=1,6
01334   455*     9092 RAVG2(IUNI,K,JLEV)=0
01336   456*     9018 FORMAT(1X,'AVG DAILY SECOND INSTR. TIME ',6(F10.4))
01337   457*          WRITE(ISWRL,9019)(RAVG3(IUNI,K,JLEV),K=1,6)
01345   458*          DO 9093 K=1,6
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01350   459*      9093 RAVG3(IUNI,K,JLEV)=0
01352   460*      9019 FORMAT(1X,'% P. EX. TIME TO SEC. INSTR. ',6(F10.4))
01353   461*           WRITE(ISWRL,9015)
01355   462*      9015 FORMAT(/)
01356   463*      2051 CONTINUE
01360   464*      2888 CONTINUE
01362   465*           JALUNI(IUNI)=0
01363   466*           DO 2890 J=1,6
01366   467*           INDCRI(IUNI,J)=0
01367   468*           DO 2890 ILEV=LEV,5
01372   469*           DO 2890 K=1,5
01375   470*      2890 KWEEK(IUNI,J,K,ILEV)=0
01401   471*           DO 2899 ILEV=LEV,5
01404   472*           RN(IUNI,ILEV)=0
01405   473*           RG(IUNI,ILEV)=0
01406   474*           AN(IUNI,ILEV)=0
01407   475*           AG(IUNI,ILEV)=0
01410   476*      2899 AVG(IUNI,ILEV)=0
01412   477*           GOTO 2031
01413   478*      5000 WRITE(6,9004) IRECS
01416   479*           END FILE 8
01417   480*           STOP 3
01420   481*           END

          END OF UCC 1108 FORTRAN V COMPILATION.      0 *DIAGNOSTIC* MESSAGE(S)
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